



AIRSLetter '96

The AIRSLetter is a quarterly publication produced by the United States Environmental Protection Agency, Office of Air Quality Planning & Standards, Information Transfer & Program Integration Division. It is intended to provide information and emerging issues related to the Aerometric Information Retrieval System (AIRS).

What's Inside!!

Article Name	Page #
General AIRS Articles	
Notes From Ed Lillis	1
AIRS Conference in DC	1
AIRS Re-engineering	2
AIRS & The Web	2
Deadline for Next AIRSLetter	3
AIRS Conference Agenda	
See Confreg.pdf	
AIRS Conference Registration	
Back	
See Confreg.pdf	
AFS Articles	
Batch	4
Batch & MACT Training	4
Batch & State Converters	5
Batch & Plant Id Creation	5
A Look At FY96 and FY97	7
Call for AFS Conference Items	8
AQS Articles	
AQS Re-engineering	9
New Σ Target Parameter	11
New Monitor Type U	12
AQS System Bugs	13
Contacts	
General AIRS	14
AQS Contacts	15
AFS Emissions	21
AFS Compliance	25
AFS Toxics	29
AFS Permits	30

Notes From Ed

by Ed Lillis



YES VIRGINIA, THERE WILL BE AN AIRS CONFERENCE, April 21 - 25, 1997 in Washington D.C. (See article below as well as the back of the AIRSLetter). The theme for the Conference is RE-ENGINEERING. Hope you can come.

Andrea Kelsey's article on page 9 lists the new features we plan to include in the new re-engineered AQS. These and many other changes will be discussed in detail at the Conference. We also plan to talk about our preliminary thoughts about re-engineering AFS, from both an emissions and compliance perspective.

AFS USERS: Have you tried the new BATCH UPLOAD yet? It's up and running as Chuck Isbell explains (page 4). Though it still has a few bugs, we have received some compliments about user's ability to upload data directly into AFS without having to wait for the old overnight run. Training on the new batch and the case-by-case MACT enhancement is going on now at your favorite Regional office (see page 4). Additional training is also planned at the Conference. Till then, let's keep re-engineering!

1997 AIRS Conferece to be Held in Washington, D.C.

by Jerry Husketh

The 8th annual Airs Conference will be held April 21-25, 1997 in Washington, D.C. The hotel site for this meeting is the Renaissance Hotel, 999 9th St., N.W., Washington, D.C. The Hotel reservations phone number is 202/898-9000 or 800-Hotels-1. Single Room rates will be current government per diem (\$124 tax inclusive). Additional persons will be charged \$25/day.

Meeting room arrangements for 300 people have been made. However, because April is such a popular time to visit Washington, D.C., we were only able to reserve 200 sleeping rooms at the Renaissance. An additional 100 rooms have been reserved at the federal per diem rate (tax inclusive): fifty (50) rooms at the Crowne Plaza Hotel, 14th & K Sts., N.W. (Phone 202/682-0111 or 800/637-3788) and fifty rooms (50)

Continued From "1997 AIRS Conference to Be Held in Washington, DC" - Page 1

at the Grand Hyatt Hotel, 1000 H St., N.W. (Phone 202/582-1234). These hotels are approximately three blocks from the Renaissance. I suggest you make your hotel arrangements as early as possible if on-site accommodations are important to you.

A draft agenda and conference registration form are included in this AIRSLETTER. Be sure you mail or fax the registration form to me.

This year's conference will place heavy emphasis on state and local agency participation. Presentations by active state and local agency users of the AIRS subsystems will be sought to encourage sharing of ideas and products.

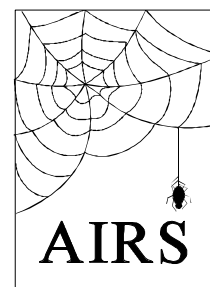
Ideas for presentations, special meeting topics, general suggestions, etc. are always welcome. Please Mail them to Jerry Husketh, U.S. E.P.A., MD-12, RTP, N.C. 27711, email HUSKETH.JERRY, or call Jerry at (919) 541-5449 or Fax to 919/541-7674.

Hope to see you in D.C.!

Internet Access to AIRS

by Jonathan Miller

Internet access to AIRS is becoming a popular alternative to dial-up access. Several people have reported success in using the following software. Please be advised that this software is freeware and is neither supported nor maintained by EPA. If you are not familiar with installation of new software on your PC, it is suggested that you obtain help from the person in your area who normally installs new software.



QWS3270 is a Winsock 3270 Telnet package that Internet users can use to access AIRS. The software uses your IP address and Winsock.dll to establish connection to epaibm.rtpnc.epa.gov and gives users full screen access to other IBM applications such as ISPF, and STORET. The software can be obtained via anonymous FTP from Queen's University at Kingston.

NOTE: This software does not support file transfers and does not display graphics (AIRSGraphics).

Minimum Requirements for the software:

- ◆ 386 PC running Windows 3.1 or higher, and
- ◆ IP connection (either direct or through an Internet provider)

Downloading QWS3270:

1. Make a directory on your PC for QWS3270:
mkdir c:\qws3270
2. Connect to [ftw.css.queensu.ca](ftp://ftp.css.queensu.ca) via anonymous FTP
Note: If you are using Netscape, typw the following url: <ftp://ftp.css.queensu.ca>, then follow the links to **//pub/win3/winsock/qws3270.zip**, click "save to disk," and save to the **c:\qws3270** directory.

If you are using a package such as WS_FTP, enter the hostname: [ftp.css.queensu.ca](ftp://ftp.css.queensu.ca) and ser-id (anonymous) and password (your E-mail address), then follow the directions below.

3. Go to **/pub/win3/winsock** and download the zipped binary file **qws3270.zip** to **c:\qws3270**.

Installation:

1. Go to the **c:\qws3270** directory and use an unzip tool, such as *PKUNZIP*, to decompress the file.

Continued From "Internet Access to AIRS" - Page 2

Note: PKUNZIP is available at <http://www.epa.gov>. Click on "Software" near the bottom of the page, then click on "Freely Available Utilities: near the bottom of the Software page, and then click on "Self-Extracting PC EXE file = PKUNZIP" After downloading **PKZIP2.04** as **pkz204g.exe**, type **pkz204g** to decompress the file.

2. Execute the following statements:
c:\>cd qws3270
c:\qws3280>pkunzip qws 3270.zip
3. After unzipping the file, go back into Window's Program Manager to create an icon for QWS3270.
4. To create the new icon, highlight File, New..., Program Item.
5. Program Item Description:

Description: **QWS3270**
Command Line: **c:\qws3270.qws3270.exe**
Working Directory: **c:\qws3270**

Execution

Note: If you are using a third party Internet provider, establish your Internet connection before starting QWS3270

1. Double click the QWS3270 icon.
2. Click on Connect
3. Host: **epaibm.rtpnc.epa.gov**
Port: **23**
Language File: **English (U.S.)**
4. Click "OK".

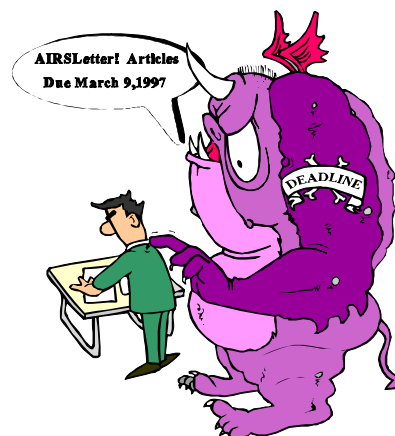
This will bring you to the EPA IBM Mainframe screen that you are probably used to seeing. You have the ability to change the keyboard configuration and system colors if you wish (using "Help"). Please keep in mind this software does not allow you to transfer files, nor use AIRSGraphics, but you get what you pay for!! There are plenty of software packages available that give you this additional functionality, but not for free. If you have any questions, please give someone in the Information Management Group or the AIRS Help Line (1-800-334-2405 x422) a call. Or send a note via e-mail to Miller.Jonathan@epamail.epa.gov.

AIRSLetter Deadline for Spring Edition Set

by Jonathan Miller

As you all may be aware, the AIRSLetter is a quarterly publication written, edited, and distributed by the Information Management Group of the United States Environmental Protection Agency. Readers are encouraged to submit articles for publication on any relevant topic (such as upcoming training, conferences, report releases).

If you would like to send in an article, please send via e-mail to Miller.Jonathan@epamail.epa.gov. Most word processor formats are acceptable. As always, the editor (that's me) has the liberty to make editorial changes. Please submit your articles by Sunday, **March 9, 1997**.



AFS News

The "New" AFS Batch Update

by Chuck Isbell

You are familiar with the advertising cliché "new and improved," well....not only is the new batch update "new and improved" but it is "new and **installed**." Yes, the "new" batch update is in production! Although it is not without problems, the new batch update software appears to be an excellent improvement over the old batch update. As expected with any large software installation, we have identified some problems with the software, but have also identified some user induced problems. Please know that we are committed to resolving every problem in a timely manner.



We have found some "quirks" and inconsistencies between the new batch and the old batch update. For example, the new batch EDIT will reject certain change transactions because the software does not have the necessary look-back capability to determine that the entity (plant, stack, point, etc.) is being added by an earlier add transaction, whereas the new batch UPDATE will not reject those same change transactions. We are documenting these problems and quirks. We will write up a description of each problem, the best way for you to deal with the problem in the interim, how we plan to fix the problem, and when the problem is expected to be resolved.

The biggest problem on the user side has been central (nightly) update jobs abending due to RACF security problems. We found that batch update users are not granting RACF (Resource Access Control Facility) authority to the Central Batch Update. Users who wish to have their batch transactions or online utility transactions updated by the Central Update must create a Data Set Profile using the RACF Utility in TSO/ISPF. There are detailed step-by-step instructions in Section 9 of the "new" Batch Update Training Manual. This manual can be downloaded from the AIRS/AFS TTN Bulletin Board or FTP site (<ftp://134.67.104.11/e-drive/airs/afs/softw/newbat.wpf>). The RACF profile is not required for "edit" runs or "update" runs that you submit (run) yourself, or online utility transactions if you are a "manual" utility user.

In past AIRSLetter issues we have discussed some new features of the "new" batch update and about upcoming training that we are providing. For some new and different reasons, see Bill Frietsche's article on creating the AFS Plant-IDs via the new batch and Mark Antell's article on the advantages of the new Compare Processor for State converters. Pay close attention to Lillian Bradley's article for the most recent MACT and Batch Training schedule.

AFS MACT and Batch Training Underway

by Lillian Bradley

On-site MACT and Batch training have been conducted in Regions 7, 3 and 6. Regions 1, 2 and 5 are being trained December 10 - 13. These 3 and 4 day training sessions include all the changes to AFS to support the entry and retrieval of HAP data as well as 1 day introducing the new batch enhancement.

The purpose of the training is to give AFS users hands-on sessions using the new MACT enhancements including the new ranking report and to encourage the entry of HAP data into AFS. We are especially interested in data in those source categories in the 10-year bin.

Continued From "AFS MACT and Batch Training Underway" - Page 4

The following training sessions remain:

<u>Region(s)</u>	<u>Date</u>	<u>Site</u>
8,9	January 13 - 16, 1997	San Francisco
10	January 6 - 10, 1997	Seattle
4	January 27 - 31, 1997	Atlanta
Open	February 25 - 27, 1997	RTP

If you have any questions concerning the training schedule or data needs, please contact me at (919) 541-5694.

Advantages of the New AFS Batch Compare Software for State Convertors

by Mark Antell

Recently, IMG installed an enhanced batch comparison software, which has several potential advantages to States reporting federally required data to AFS using convertor software to translate activities from their State systems.

Some of the advantages will be seen in the operational software. For example, when developing or enhancing convertors, the complexity of the task is reduced. You would no longer need to track differences between your system and AFS, simply submit all activity through the compare software within a date range, and AFS will be changed or added to appropriately.

Some of the advantages will be seen in a shortening or simplification of the manual portion of the process

. For example, convertor States currently may often extract information from AFS, download the extract, compare the extract and generate adjusting transactions, upload the changes, and submit them. With the new compare capability, they can simply generate a file of activity within a given date range from their system, upload the activity, submit the compare, then the update. Another advantage may be seen with a shortening of the update output reports, since the compare will eliminate "good messages" often encountered, such as attempting to add transactions already there (this can happen when globally submitting data to ensure it is on AFS.) The data which is created from the compare process will only generate adds or changes as they are appropriate. An optional "before & after" report is available through the compare should you wish to verify values prior to submitting the update.

As a result of the new compliance comparison capability, there will be less of a software maintenance burden on States to keep up with changes to AFS. That is because as AFS changes, the compare software will, too.

I would suggest that all agencies currently submitting data from their own systems to give this long-anticipated software a try. It just might simplify your job. If you would like more information, you can contact your regional AFS manager.

Announcing Batch Capability for the AFS Plant ID

by Bill Frietsche

One benefit of the new AFS Batch processing software recently put into production is the inclusion of batch formats for creating the AFS Plant ID.

AFS Plant ID - The AFS Plant ID is the new ID, up to 15 characters, which must be used to report the required Title V data - the PPDEs or Permit Program Data Elements

Continued From "Batch Capability for AFS Plant ID" - Page 5

Until now, you had to either create the IDs one by one on-line, or ask me to run a special program that would populate them from a workfile. Now, you can do it yourself with the new batch transactions.

The need for everyone involved with stationary source air data to agree on the ID convention still remains, however. Before you assign AFS Plant IDs for all of your facilities, make sure the other interested parties agree with your convention.

To assign an AFS Plant ID to an existing plant, or new plant, you use the AFS format , transaction 10-1 card.

(Note: You cannot use the 120 character AFX format to assign AFS Plant IDs)

Rev. 8/95

AFS GENERAL PLANT INFORMATION
TRANSACTION TYPE 10

	<u>Name of Field</u>	<u>Columns</u>		<u>Field</u>	<u>Remarks</u>
		<u>From</u>	<u>Thru</u>	<u>Length</u>	
1	State Code	1	2	2	Key
2	County Code	3	5	3	Key
3	Plant ID	6	10	5	Key
4	Transaction Type	11	12	2	Key, Always 10
5	Sequence Number	13	13	1	Key, Always 1
6	Emissions Inventory				
	Year of Record	14	15	2	Key for Emissions
7	Plant Name	16	55	40	
8	Associated Plant Id	56	60	5	
9	AFS Plant ID	61	75	15	
10	Update Code	80	80	1	Key, Always A, C, or D

Specify the existing plant id in fields 1,2, and 3, and then put the AFS Plant ID to be assigned in field 9 for existing plants. Submittal of this one card as a change transaction will assign the AFS Plant ID.

For new plants, you need to fill out the required card sequences to create a plant, and be sure to include the AFS Plant Id in columns 61 - 75 on the 10-1 card.

It is an add or change transaction depending on whether or not the plant exists.

You can submit the job to run right away in the new batch processing (assuming it takes no more than 5 CPU minutes), and get your IDs updated quickly! Please call me or the AFS hotline if you have questions about this.

If you want to retrieve the AFS Plant ID in an AdHoc report, the acronym for AFS Plant ID is PAFS. The field is on the Table-Plant record.

The "new" batch manual is on the AIRS/AFS TTN BB and FTP site (ftp://134.67.104.11/e-drive/airs/afs/softw/newbat.wpf). If you would like a copy mailed to you, please phone or e-mail Ms. Virginia Ambrose (919-541-5454) and give her your mailing address.

Looking Back at FY'96 and Ahead to FY'97

by Chuck Isbell

Before we begin talking about our upcoming plans for FY'97, let's recap the software accomplishments of FY'96. First, you may recall that FY'96 was the year of Continuing Resolutions and Federal government furloughs. It was a most unusual year where our funding was "partial" and came in small reduced portions throughout the year. A year where we did not know what our total funding would be; just that it was going to be much less than the year before. Given the budget problems, we really did remarkably well to have accomplished the following tasks:

MACT Ranking Report - was installed as a new report on the AFS Fixed Format Selection Menu in May. The ranking report completed the basic MACT project and made it possible to retrieve the hazardous air pollutants (HAPs) in a report that provides preliminary information for making Case-by-Case MACT determinations.

Multi-Facility Browse - the first of the MACT User Friendly Enhancements was completed in November 1996. The enhanced browse capability enables one to browse multiple plants based on some selection criteria, to identify MACT determinations made by States, and to review data (that the ranking report retrieves) with the new browse capability.

NSPS/NESHAP/MACT Subpart Tracking - users are now able positionally to update up to nine subparts per air program to identify the NSPS, NESHAP, or MACT standard the facility is to meet.

Confidential to State Sensitive - the AFS system and documentation were modified to replace all references to "confidential" with "state sensitive" or "enforcement sensitive." Also, with this modification, user security profiles were updated so that only State users have access to "state sensitive" data.

Permits Management Summary Report AFP692 - this new report provides a summary of the permit program data elements (PPDEs) for any requestor to track the permit process for individual permitting organizations.

Critical Data Element Report - was optimized to provide users the capability to easily request it on a daily basis to replace the same report from the update that the new batch update will no longer create.

"New" Batch Update - was placed into production on November 25, 1996.

Compare Processor - was enhanced to process compliance and permit transactions as it does for emission transactions, accept the new AFX transaction formats, and provide neck down delete capability for emissions data. This enhancement was placed into production along with the "new" batch update software.

Looking ahead to our goals for FY'97 we see several important tasks:

Emission Inventory Improvement Program (EIIP) - the Data Management Committee (DMC) of the EIIP is in the process of finalizing the standard data transfer format and transfer protocol it has developed to support the need to share consistent emission inventory data sets. OAQPS is committed to supporting the EIIP. The Emission Factor Inventory Group (EFIG) is developing a prototype database (Oracle) that will store EIIP data being transferred in an Electronic Data Interchange (EDI) format. In support of the EIIP, the AFS Team will develop software that will translate AFS data into the EIIP data format. This software maybe written as an AFS fixed format report or as standalone PC software that a State could use to convert their AFS batch transaction formats to the new EIIP format.

Continued From "Looking Back" - Page 7

MACT User Friendliness - these modifications will simplify the online entry and analysis of HAP data. The toggle between browse and update will permit users to switch back and fourth between update and browse for a specific record during input and data analysis activities. The condensed

point/segment update will create an input screen to update point and segment information through one entry screen. It will eliminate the need to enter point and segment information on two or three entry screens.

Year 2000 - a scoping study is underway to determine the impacts and feasible solutions for enhancing AFS to support the new EPA Date Standard that includes the century (CCYY/MM/DD) as part of the date year format. Once the solutions are analyzed, we will have a better feel for what approach we take to enhance or re-engineer the existing AFS so that it is Year 2000 compliant with the new agency standard.

EPA's Facility Identification Initiative (Key-ID) - AFS Team members have actively participated as members of the EPA Key-Id Workgroup. In FY'96 a cost survey, cost estimate, and system description for the enhancement of AFS was prepared for the Office of Information Resource Management (OIRM). Much like the Year 2000 problem, we have to decide whether supporting the new Key-Id Initiative by enhancing or re-engineering AFS is best. Funding, as you would expect, plays a major role in these kinds of decisions.

Share Success! Call for Presentations at the National AIRS Conference

by Mark Antell

Traditionally, presentations on the use of AFS by delegated agencies and by EPA Regional offices have provided enormous benefit to conference attendees. Please share your succesful experiences with others by presenting them at the national AIRS conference! Contact your Regional AIRS managers with your presentation ideas.

AQS News

The AQS Re-engineering Project - The Conceptual Design Phase

by Andrea Kelsey



To refresh your memory, the AQS Re-engineering Team (ART) has a very ambitious project schedule. The overall schedule calls for a conceptual design report to be produced by 12/96, a PC prototype by 1/97, and an Oracle data base with AQS production data by 7/97. Full implementation of the system with all of the software for updating and retrieving is scheduled for 4/98. All of the details will be presented at the AIRS Conference. Hope to see you there.

In order to keep all interested persons informed, ART has provided information on the AIRS Re-engineering Home Page (<http://www.epa.gov/airs/reeng/>) regarding this project. The latest information to be added are the results of the Technical Advisory Group (TAG) Fall Meeting. Information planned for the next few weeks include the results of the questionnaire and the executive summary of the Conceptual Design Document. Please review this information and provide any comments or suggestions to me or any member of the ART or TAG. The membership of these groups is also on the home page.

ART has been focusing its efforts recently on the conceptual design document. In determining the conceptual design, we have addressed the data storage needs, the update process with edits and validations, and the outputs, including browse, standard reports, ad-hoc and graphics. Therefore, many decisions have been made along these lines. We are planning to send out an executive summary of this design document to all of our AQS contacts and a copy of the entire document will be available upon request (depending on its size, it may be placed on the web for downloading). This will give all of our contacts and other interested clients an opportunity to comment on the contents of the design document.

In order to make design decisions, we want to obtain critical feedback from our end users. The Technical Advisory Group (TAG) that was formed this summer has been actively participating in the design process. TAG subdivided into four subteams to address the following areas: Data, Updates, Outputs, and QA. Conference calls were held with these subteams to discuss critical issues for the conceptual design. At a Fall meeting the whole TAG addressed these four topics and some other crosscutting topics such as security and the prototype. We expect the TAG to remain active throughout the duration of this project.

With the TAG input, the EPA project team was able to make most of the technical design decisions. Areas of the design that needed input from management were designated and presented at several management-level meetings. The conceptual design document contains all decisions that have been made to this point. Just to whet your appetite, the list below describes some of the proposed changes:

PROPOSED CHANGES

DATA ELEMENTS

New Site, Monitor Data Fields - A few new fields have been added, based on suggestions by State and Local Agency representatives, to allow for more specificity on retrievals. They are mainly more geographical fields and collocated indicator fields. These fields are not mandatory, (except for urban area) but if submitted must pass appropriate edits.

Storage of Raw Data in Standard and Reporting Units - Many State and Local users have stated that since the raw data is used across multiple areas and will be accessible to the public, it is important to store the data in a standard unit. However, the data submitter also needs to see the data in the units it is reported in. We plan to store data in both standard and reported units since rounding errors in

Continued From "The AQS Re-engineering Project - The Conceptual Design Phase" - Page 9

conversions could result in different numbers.

Add New Event Entity - A new capability is being added that will optionally allow the documentation of an event and automatically flag the resulting raw data. This can be used for exceptional events, null data code assignment, QA events, etc. and was supported by the TAG as a useful feature.

Allow Direct Input of Summary Data - We plan to allow summary data to be input as long as no raw data is reported for a monitor. This will accommodate GEMS AIRS and toxics summary data storage.

Storage of Short Term Data - We plan to add the capability to store raw data values with intervals of less than an hour.

Pictures and Videos - We plan to add the capability to allow the storage of pictures and videos at the site and monitor levels.

Eliminate Storage of Quarterly Summary Statistics - Since these are seldom used, they will no longer be stored, but they can be calculated and retrieved from standard reports.

Store Daily Summary Statistics - Since daily statistics have a lot of interest, we plan to store them and make them available for browsing and ad hoc reporting tools.

Expand Ability to Store Data for Various Accuracy Audits - Along with the accuracy data currently stored, we plan to allow the storage of accuracy data for other audit types such as NPAP, which will be identified by an audit type.

Track info on System Audits - As a non-mandatory option, we plan to add the capability to store tracking information on when system audits and site evaluations are scheduled and performed. This information may be provided by State and Local Agencies, plus EPA Regions and Headquarters.

UPDATE

EMAD Review After Update - EMAD/OAQPS has agreed to change their data review policy. The data being updated will be reviewed after the data has been updated into the AQS data base. This review will consist of running a report that will give specific update information for the time period requested. If there are data that EMAD finds to be incorrect, the EMAD reviewer will be able to delete these values or change them back to their previous values. Of course, the submitter of the data will be notified if errors are found. The contents of the review report will be determined by specific criteria based on the values and whether the data has been SLAMS certified. The benefit of this policy change will allow for online and more frequent updates, a change requested by many end users who submit data.

Streamline the Update Process - As a result of the new data review policy, we plan to allow users to update the data online and run their own batch updates as needed. This will result in the database being updated more frequently with more timely data. Users won't have to wait on the weekly raw data update cycle. The screening file concept will still be provided.

SLAMS Certification - The new AQS will no longer require the computation of separate SLAMS summary statistics, since now all raw data are reported for SLAMS monitors and the summary data are calculated upon data entry. The agencies will still certify data with a memo and will indicate the certification with an online data entry function.

Additional Non-Mandatory Edits - New non-mandatory edits will be incorporated that will specify threshold values for parameters. These thresholds will be specified as four values, absolute max and min and relative max and min. The values outside the thresholds for the absolutes will be rejected unless a "v" is entered by the data submitter for the validity flag. The relative thresholds will produce a warning. EPA will specify the default thresholds, but the system will have the capability to override them with State level threshold values.

Continued From "The AQS Re-engineering Project - The Conceptual Design Phase" - Page 9, 10
OUTPUTS

Revamp Standard Reports - We plan to continue to provide standard reports with the new AQS. Some reports will be combined, others eliminated, and new ones added based on user input. Outputs will be to the screen, report, or workfile in various PC compatible formats. The selection capabilities will be expanded and some new features will be added to some reports.

Provide Ad-hoc and Browse via Oracle tool - The Oracle Discoverer 2000 tool will be the software that users will use for browse and ad-hoc type retrievals in the new AQS. Some canned retrievals will be provided with the tool, and users can also design their own outputs using this tool. This gives the end user maximum flexibility.

Improve AIRS Graphics - Improved functions and capabilities will be provided for AIRS Graphics such as contour plots and display of data that has been mapped.

Enhance Usage Statistics - Statistics will be generated to indicate usage in both the update and output aspects of the new system, primarily to allow EPA to track usage of the system..

Provide Additional QA /Reports - We plan to develop standard reports to output the new system audit and accuracy data.

Local Standard Time - A new feature will be added to the standard reports to select and/or output the data in local standard time. There is no change to the current policy of reporting the data in standard time.

If you have any questions, comments or suggestions, please contact me (see **CONTACTS** - Page 14).

New Parameter Code Established for ΣPAMS Target Compounds

by Jonathan Miller

Currently, the PAMS Technical Guidance Document (TAD) calls for the collection of "Total Non-Methane Hydrocarbons" (AIRS Parameter 43102). The abbreviation associated with this compound was "TNMHC". The actual intent of the PAMS program (according to the TAD) is to collect and report the sum of all the PAMS target compounds. The issue was raised by several people that there is a fundamental difference between the collection of total non-methane organic compounds (TNMOC), total non-methane hydrocarbons (TNMHC), and the collection of the sum of the PAMS target compounds.

Dr. Bill McClenny of the EPA laboratories recommended the following changes to be made to AIRS and the PAMS TAD:

- 1) Leave the parameter code of 43102 and change the abbreviation to TNMOC
- 2) Create a new parameter (43000 - PAMHC) to describe the sum of the PAMS target compound list.
- 3) Assigned three sets of method codes to the new parameter. One set defined to collect the C2-C12 data, one set to describe the TO-12 EPA approved method and one to data collect by a Non-GC method.

These recommendations were presented to the PAMS Data Management Group and seemed to be an agreeable solution. The changes have already been implemented in Geo-Common. If you find that you need a new method added to the new parameter, please call Michael Hamlin at (919) 541-5232 and we will add it.

New “Unofficial PAMS” Monitor Type Created

by Jonathan Miller

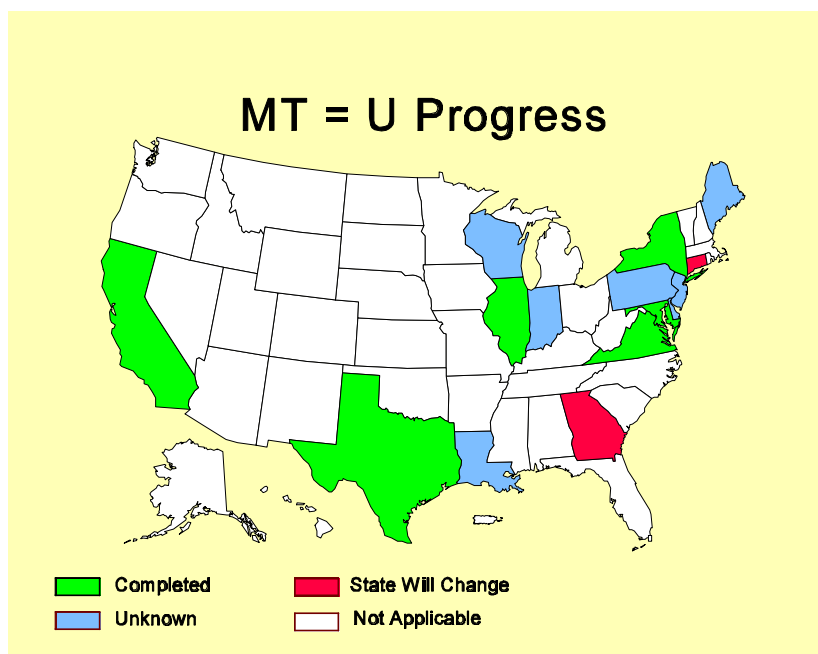
Many users of the PAMS data have found it difficult to retrieve data from some PAMS monitors. The easiest way to do this in theory is to select the PAMS monitor type [Monitor Type = P selects all of the PAMS monitors types (6, 7, 8)]. However, only about 25% of the currently operating PAMS monitors have been approved as PAMS sites. Because they have not been formally approved by OAQPS, they are not designated as PAMS sites in AIRS. Consequently, data from these sites are not retrieved in reports that ask for PAMS data. The reason they have not been approved as PAMS sites is due to either a lack of documentation for the validity of the proposed PAMS site, the lack of supplied information on the AIRS monitor record, and/or the process of creating the 112+ monitor records (F1 and F2 transactions). Whatever the reason, few of the operating PAMS monitors are designated as such on AIRS.

In an attempt to allow individuals to download data from “PAMS sites” that have not been formally approved as official PAMS sites, we have created a new monitor type “U” (Unofficial PAMS Monitor Type). We are also creating a special monitor type code (“R” for PAMS & PAMS Under Review) for the standard batch retrievals selection screen that would select official and unofficial PAMS monitors. It is expected the special “R” code will be available for the standard batch retrievals sometime in December.

The way this would work is if the user placed the letter “R” in the monitor type field, the standard report would select the official PAMS monitor types (6, 7, 8), as well as the monitor type “U”. If the user places a “P” in the monitor type field of the selection screen on batch retrievals, only the official PAMS monitor types would be retrieved. In order to retrieve just the unofficial monitors from AQS, the user would place a “U” in the monitor type field of the standard batch retrieval selection screen.

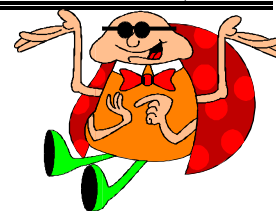
In order for this convention to work, the AQS monitor records need to be revised to be consistent with this new convention. A memo was sent to the affected Regions and States describing the procedures and offering assistance in changing the monitor type. As you can see from the map, I, as well as many of the affect PAMS states, have been busy changing appropriate monitor records to the new monitor type “U”. Please note that not all monitors at the PAMS sites are changing to “U”. The most notable exceptions are criteria pollutants that are part of either the National Ambient Monitor Station (NAMS) network or part of the State/Local Ambient Monitoring Station (SLAMS) network. These monitors remain coded as “1” (NAMS) or “2” (SLAMS). It is our goal to have all the appropriate monitors changed to the new monitor type by the end of the calendar year.

If your state is collecting PAMS type of data and you would like to have existing AQS monitors changed to the new monitor type, please let me know. If you are designating new sites and monitors that will be collecting PAMS type of data, please designate these new monitors with the new “U” monitor type code.



Modifications Being Made to AQS

by Michael Hamlin



Here is a list of software modifications and enhancements currently being worked on in AQS:

Requestor	Program Affected	Description	Status
Monitoring and Quality Assurance Group (MQAG)	New Standard Batch Report	New fixed format report for PAMS data	SRF #799 Partially operational in Development - Anticipated completion in FY97
David Lutz	AMP430 (Data Completeness)	Improper Calculations for Composite Lead Sites. Strange "0" header information is also produced	Being investigated under SRF #1021
MQAG	AMP390 (Site Monitor Status Report)	Being reformatted to display all fields contained on the Site and Monitor records	New Format Under Review
Bob Rood (CA)	AMP350 (Raw Data Listing), AMP370 (Raw Data Conversion), AMP300 (Violation Day Count)	Missing some records during a day when the monitor type changed. Records are viewable through Browse, but do not appear on reports	Test Results Have Been Approved and Implementation is Forthcoming
AQS Helpline	AMP350	Terminates with natural error when most sort options are selected	Being investigated under SRF #1026
Jonathan Miller	Voyager Compiler Program	Program does not allow entry of intervals other than 1 or 7.	Referred to Lantern Corporation
Jonathan Miller	AMP215 Monitor SelectionProgram	Needs to be enhanced to deal with Unofficial PAMS Mon.	Being created under SRF #1030
Michael Hamlin	AMP350	Table column for the Day/Hour 0200 not calculating mean correctly	Test Results Have Been Approved and Implementation is Forthcoming
Jonathan Miller	Parameter Edit	Parameter needs to be changed to look for uniqueness in the CAS number and parameter name	Being created under SRF #1035

If you have found some strange items while creating reports, updating data, browsing, or whatever, call the AIRS AQS Helpline at 1-800-334-2405 x422 and let them know.

CONTACTS

Information Management Group
USEPA/OAQPS/ITPID (MD-12)
Research Triangle Park, NC 27711

Ed Lillis, Group Leader
(919) 541-5587
Lillis.Ed@epamail.epa.gov

General AIRS Information:

NCC User Support: 1-800-334-2405

AIRS User Support:
AQS, GCS, AIRS Graphics, AIRS Exec 1-800-334-2405 x422
AIRS Facility Subsystem 1-800-367-1044

User Registration, System Support, Freedom of Information Act Requests:
Virginia Ambrose (919) 541-5454 Ambrose.Virginia@epamail.epa.gov
Amy Vracken (703) 487-4630 National Technical Information Services

AIRS TTN Bulletin Board:
Michael Hamlin (919) 541-5232 Hamlin.Michael@epamail.epa.gov

AIRS Graphics, AIRS Executive, AIRS Executive International:
Tom Link (919) 541-5456 Link.Tom@epamail.epa.gov

AIRS Letter Articles & Comments:
Jonathan Miller (919) 541-3330 Miller.Jonathan@epamail.epa.gov

AQS & Geographic/Common Subsystem:

User Support, Data Questions, System Design:
Michael Hamlin (919) 541-5232 Hamlin.Michael@epamail.epa.gov

AQS Re-Engineering:
Andrea Kelsey (919) 541-5549 Kelsey.Andrea@epamail.epa.gov
Bonnie Johnson (919) 541-2469 Johnson.Bonnie@epamail.epa.gov

AIRS Facility Subsystem

User Support
Jan Kleeman (919) 541-3450 Kleeman.Jan@epamail.epa.gov

Data Support
Mark Antell (Compliance) (202) 564-5003 Antell.Mark@epamail.epa.gov
Jake Summers (Emissions) (919) 541-5695 Summers.Jake@epamail.epa.gov
Bill Frietsche (Permits & Merge) (919) 541-5451
Frietsche.Bill@epamail.epa.gov
Susan Fairchild-Zapata (MACT) (919) 541-5167
Zapata.Susan@epamail.epa.gov

System Design
Chuck Isbell (919) 541-5448 Isbell.Chuck@epamail.epa.gov
Jerry Husketh (919) 541-5449 Husketh.Jerry@epamail.epa.gov
Lillian Bradley (MACT) (919) 541-5694 Bradley.Lillian@epamail.epa.gov

AQS Regional Contacts

Ms. Wendy McDougall
USEPA Region I
60 Westview Street
Lexington, MA 02173
(617) 860-4323

Mr. Ed Finfer
US EPA Region II
290 Broadway - 20th Floor
New York, NY 10007-1866
(212) 637-4244

Mr. Ted Erdman
US EPA Region III
841 Chestnut Street
Philadelphia, PA 19107
(215) 566-2766

Mr. Darren Palmer
US EPA Region IV (APTM/DPB)
100 Alabama Street, SW
Atlanta, GA 30303-3104
(404) 562-9052

Mr. Wil Damico
US EPA Region V (SQ-14J)
77 W. Jackson Boulevard
Chicago, IL 60604-3590
(312) 353-8207

Ms. Ruth Tatom
US EPA Region VI
1445 Ross Avenue
Dallas, TX 75202-2733
(214) 665-8355

Ms. Joyce Sousley
US EPA Region VII
25 Funston Road
Kansas City, KS 66115
(913) 551-5050

Mr. Dale Wells
US EPA Region VIII (8ART-TO)
999 18th Street, Suite 500
Denver, CO 80202-2405
(303) 293-0967

Mr. Jim Forrest
US EPA Region IX
75 Hawthorne Street
San Francisco, CA 94105
(415) 744-1291

Mr. Bill Puckett
US EPA Region X (ES-097)
1200 6th Ave
Seattle, WA 98101
(206) 553-1702

Region 1

Connecticut

Mr. Vic Yanosey
Dept of Environmental Protection
Air Compliance
79 Elm Street
Hartford, CT 06106-5127
(860) 424-3524

Maine

Mr. Leighton Carver
ME Dept of Environmental Prot.
State House Station 17
Augusta, ME 04333
(207) 289-2437

Massachusetts

Mr. John Lane
Dept of Environ Protection
Lawrence Experiment Station
37 Shattuck Street
Lawrence, MA 01843
(508) 975-1138 x-304

New Hampshire

Mr. Paul Sanborn
NH Dept of Environmental Service
Air Resources Division
64 North Main Street
Concord, NH 03302-2033
(603) 271-1384

Rhode Island

Mr. John Cucco
RI Dept. of Environ Mgmt.
50 Ormes Street
Providence, RI 02904
(401) 277-3406

Vermont

Mr. Greg Heil
Air Pollution Control Division
103 S. Main Street, Bldg. 3 South
Waterbury, VT 05676
(802) 244-8731

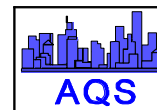
Region 2

New Jersey

Mr. Andy Mikula
NJ Dept. of Environ. Protection
401 E. State Street
Trenton, NJ 08625-0027
(609) 984-5512

New York

Mr. William Delaware
NY Dept. of Environ. Conser
50 Wolf Road
Albany, NY 12233-3259
(518) 457-3200



Region 2 (Continued)

Puerto Rico

Ms. Evelyn Rodriguez
PO Box 11488
Santurce, PR 00910
(809) 767-8025

Region 3

Delaware

Mr. Joe Gagliardino
DE Dept. of Natural Resources and Env. Control
715 Grantham Lane
New Castle, DE 19720
(302) 323-4542

District of Columbia

Mr. Robert Day
Dept. of Consumer & Reg. Affairs
2100 Martin Luther King Blvd, SE
Washington, DC 20020
(202) 404-1180

Maryland

Mr. Ed Gluth
MD Dept of the Environment - Air Mgmt Administration
2500 Broening Highway
Baltimore, MD 21224
(410) 631-3871

Pennsylvania

Mr. Jeff Miller
PA Dept of Environmental Res.
PO BOX 8468 (MSSOB 12) - 2nd and Chestnut St
Harrisburg, PA 17105-8468
(717) 787-6548

Pennsylvania (Local)

Mr. Bill Miller
Philadelphia Air Mgmt Services
1501 E. Lycoming Street
Philadelphia, PA 19124
(215) 685-1477

Pennsylvania (Local)

Mr. Ron Savukas
Alleghany County Health Dept - AQ Monitoring
Division
301 39th Street
Pittsburgh, PA 15201
(412) 578-8140

Virginia

Ms. Crystal Sorensen
VA Dept of Environ Quality - Air Monitoring Division
5324 Distributor Drive
Richmond, VA 23225
(804) 230-7737

West Virginia

Mr. Charles Spann
WV Air Pollution Control Commiss
1558 Washington Street, East
Charleston, WV 25311
(304) 558-4022

Region 4

Alabama

Mr. Tom Mac
AL Dept of Environ Mgmt - Air
Division
1751 Federal Drive
Montgomery, AL 36130
(334) 271-7963

Alabama (Local)

Ms. Gloria Mims
City of Huntsville
305 Church Street
Huntsville, AL 35801
(205) 883-3645

Alabama (Local)

Mr. Russell Jarrett
Jefferson County Dept of Health
1400 Sixth Avenue South
Birmingham, AL 35202
(205) 933-9110

Florida

Mr. Brian Kerckhoff
FL Dept of Environ Protection - Mail Station 5510
2600 Blairstone Road
Tallahassee, FL 32399-2400
(904) 488-6140

Florida (Local)

Mr. Daniel Dossman
Broward County Office of Nat Res. Protection - Air Div
621 S. Andrews Avenue
Ft. Lauderdale, FL 33301
(305) 765-4436

Florida (Local)

Mr. Tom Taminini
EPC/Hillsborough County
1410 N. 21st Street
Tampa, FL 33605
(813) 272-5530

Georgia

Mr. Kit Redmond
GA Air Protection Branch
4244 International Parkway - Suite 120
Atlanta, GA 30354-3906
(404) 363-7078

Kentucky

Mr. Jerry Suddeth
KY Division of Air Quality
803 Shenkel Lane
Frankfort, KY 40601
(502) 573-3382

Mississippi

Mr. Mike Norcom
MS Dept of Env. Quality
PO Box 10385
Jackson, MS 39289
(601) 961-5133



Region 4 (Continued)

North Carolina

Mr. Wayne Cornelius
NC Dept of Environ Conservation
512 N. Salisbury Street
Raleigh, NC 27626-0535
(919) 715-3460

North Carolina (Local)

Mr. Lewis Weinstock
Forsyth Co. Environ Affairs Dept
537 N. Spruce Street
Winston-Salem, NC 27101
(919) 727-8091

North Carolina (Local)

Mr. Jeff Francis
Mecklenburg Co. APCD
(704) 336-5500

South Carolina

Mr. John Shrenk
SC Div of Air Quality Analysis
PO Box 2202
Columbia, SC 29202-2022
(803) 935-7096

Tennessee

Mr. Billy Pugh
TN Air Pollution Control - L & C Annex, 9th Floor
401 Church Street
Nashville, TN 32743-1531
(615) 532-0528

Tennessee (Local)

Mr. Joe Finucane
Knox Co Dept of Air Poll Control - City-County Bldg
400 W. Main Street
Knoxville, TN 37902
(615) 521-2488

Tennessee (Local)

Mr. Scott Gary
Chattanooga/Hamilton Co. Air Poll. Control Bureau
3511 Rossville Boulevard
Chattanooga, TN 37407
(615) 867-4321

Tennessee (Local)

Mr. George King
Memphis/Shelby Co Health Dept - Air Pollution Div.
814 Jefferson Avenue
Memphis, TN 38105
(901) 576-7802

Region 5

Illinois

Mr. Bob Swinford
IL Environmental Protection Agcy
2200 Churchill
Springfield, IL 62706
(217) 785-9323

Illinois (Local)

Mr. Vijay Panchal
Cook County EC
1500 Maybrook Drive
Maywood, IL 60153
(312) 865-6165



Indiana

Mr. Steve Lengerich
IN Office of Air Management
PO Box 6015
Indianapolis, IN 46206-6015
(317) 308-3264

Indiana (Local)

Mr. Aaron Childs
Public Works - Air Pollution Control Division
2700 S. Belmont
Indianapolis, IN 46221
(317) 327-2359

Michigan

Ms. Debbie Harren
MI Dept of Nat Res - Air Quality Division
PO Box 30260
Lansing, MI 48909
(517) 373-6254

Michigan (Local)

Mr. Bob Paulson
Wayne County Air Pollution Cont
640 Temple Street, 7th Floor
Detroit, MI 48201-2558
(313) 832-5001

Minnesota

Mr. Paul Franklin
MN Pollution Control Agency - Division of Air Quality
520 Lafayette Road
St. Paul, MN 55155
(612) 282-5842

Ohio

Mr. Gary Engler
OH EPA - Division of Air Pollution Contl.
PO Box 1049
Columbus, OH 43216-1049
(614) 644-3623

Wisconsin

Ms. Shirley Haidinger
WI Dept of Nat Resources - Bureau of Air Mgmt
PO Box 7921
Madison, WI 53707-7921
(608) 266-1552

Region 6

Arkansas

Ms. Miriam Talbert
AR Dept of Pollution Control and Ecology
8001 National Drive
Little Rock, AR 72209
(501) 682-0925

Region 6 (Continued)

Louisiana

Mr. T. Sintuphant
LA Dept of Environmental Quality - Air Quality Division
3501 Chateau Blvd. (West Wing)
Kenner, LA 70065-6205
(504) 471-2851

New Mexico

Ms. Josephine Ball
Air Quality Bureau
PO Box 26110
Santa Fe, NM 87502
(505) 827-0063

New Mexico (Local)

Mr. Mike Wehrle
City of Albuquerque - Air Pollution Control
PO Box 1293
Albuquerque, NM 87103
(505) 768-1978

Oklahoma

Mr. Kent Stafford
OK Dept of Environmental Quality - AQ Program
4545 N. Lincoln Boulevard, Sw 250
Oklahoma City, OK 73105-3483
(405) 271-1683 x197

Oklahoma (Local)

Ms. Rhonda Jeffries
Tulsa City/County Health Dept
4616 E. 15th Street
Tulsa, OK 74112
(908) 744-1000

Texas

Ms. Jo Flores-Worley
TX Nat Resources Cons. Comm.
PO Box 13087
Austin, TX 78711-3087
(512) 239-1130

Region 7

Iowa

Mr. Joseph Griffin
IA Dept of Natural Resources
900 E. Grand
Des Moines, IA 50319
(515) 281-8911

Kansas

Mr. Jim Stewart
KS Dept of Health and Env
Forbes Field, Buikding 740
Topeka, KS 66620
(913) 926-1556

Missouri

Dr. Calvin Ku
MO Dept of Nat Resources - Air Poll. Control Prgms
PO Box 176
Jefferson City, MO 65102
(573) 751-0750

Nebraska

Ms. Linda McCrory
NE Dept of Environmental Control
PO Box 98922
Lincoln, NE 68509
(402) 471-2189

Nebraska (Local)

Mr. Chester Black
Omaha Air Quality Control
5600 S. 10th Street
Omaha, NE 68107
(402) 444-6015

Region 8

Colorado

Mr. Bill Hague
CO Dept of Health - Air Pollution Control Division
4300 Cherry Creek Drive South
Denver, CO 80222-1530
(303) 692-3230

Montana

Ms. Kathy Irish
Mt Air Quality Bureau - Dept of H&ES
Cogswell Building, RM A-116
Helena, MT 59620
(406) 444-5269

North Dakota

Mr. Dan Harman
ND Dept of Health & Consol Lab
1200 Missouri Avenue
Bismark, ND 58502
(701) 328-5188

South Dakota

Mr. Brad Shultz
SD Air Quality Program
523 E. Capital Avenue
Pierre, SD 57501
(605) 773-3351

Utah

Mr. Art King
Air Monitoring Center
261 West 500 South
Salt Lake City, UT 84101
(801) 322-9911

Wyoming

Mr. Bob Schick
WY Dept of Environ. Quality - Herschler Building
122 W. 25th Street
Cheyenne, WY 82002
(307) 777-6182



Region 9

Arizona

Mr. Jim Guyton
AZ Dept of Environmental Quality
3033 N. Central Avenue, 7th Fl.
Phoenix, AZ 85001-0600
(602) 207-2364

Arizona (Local)

Mr. Don Hopkinson
Maricopa Cnty Env. Qual. & Community Services
2406 S. 24th Street, #E-214
Phoenix, AZ 85034-6822
(602) 506-6713

Arizona (Local)

Ms. Martha Salvato
Pima County Health Dept - Air Quality Control District
130 W. Congress Street
Tuscon, AZ 85701
(602) 740-3376

California

Mr. Bob Maxwell
CARB- Technical Support Division
PO Box 2815
Sacramento, CA 95814
(916) 322-9336

California (Local)

Ms. Jean Timmerman
San Diego County Air Pollution Control District
9150 Chesapeake Drive
San Diego, CA 92123-1096
(619) 694-3343

California (Local)

Santa Barbara APCDistrict
26 Castilion, B-23
Galeta, CA 93117
(805) 654-3818

California (Local)

Mr. Paul Allen
San Luis Obispo County Air Poll. Control District
2156 Sierra Way, Suite B
San Luis Obisp, CA 93401
(805) 549-5912

California (Local)

Mr. Gary Kendall
Bay Area AQMD
939 Ellis Street
San Francisco, CA 94109
(415) 749-4932

California (Local)

Mr. Tony Malone
Mojave Desert AQMD
15428 Civic Drive
Victorville, CA 92392
(619) 245-1956

California (Local)

Mr. John Fear
Monterey Bay Unified APCD
24580 Silver Cloud Court
Monterey, CA 93940
(408) 647-9411

California (Local)

Mr. Joe Fish
Northern Sierra AQMD
PO Box 2509
Grass Valley, CA 95945
(916) 274-9360

California (Local)

Mr. Jack Beentjes
Placer County APCD
11464 B Avenue
Auburn, CA 95603
(916) 889-7130

California (Local)

Mr. Scott Scheller
San Joaquin Valley UAPCD
1999 Tuolumne Street
Fresno, CA 93721
(209) 497-1081

California (Local)

Ms. Rita Cirulis
Shasta County AQMD
1415 West Street
Redding, CA 96001
(916) 225-5674

California (Local)

Mr. Philip Moyal
Ventura County APCD
2065-A Sperry Drive
Ventura, CA 93003-7425
(805) 662-6953

California (Local)

Mr. Thomas Parson
South Coast AQMD
2185 E. Copley Drive
Diamond Bar, CA 91765
(909) 396-2239

Hawaii

Ms. Terri Shinsato
HI Dept of Health - Air Surv.
2725 Weimeno Home Road
Pearl City, HI 96782
(808) 453-6625

Nevada

Mr. Robert Smith
NV Bureau of Air Quality - Plan & Tech Serv. Branch
123 W. Nye Lane
Carson City, NV 89710
(702) 687-4670



Region 9 (Continued)

Nevada (Local)

Mr. David Hoch
Clark County Health District
625 Shadow Lane
Las Vegas, NV 89127
(702) 383-1276

Nevada (Local)

Ms. Linda O'Brian
Washoe County District HD AQMD
PO Box 11130
Reno, NV 89520
(702) 784-7206

Region 10

Alaska

Mr. Ron King
AK Dept of Environ Conservation
PO Box O
Juneau, AK 99811
(907) 465-2666

Alaska (Local)

Mr. Kent Monroe
Fairbanks North Star Borough
PO Box 1267
Fairbanks, AK 99707
(907) 459-1321

Idaho

Mr. Matthew Stoll
Division of Env. Qual. - Community Programs Division
1410 N. Hilton Street
Boise, ID 83720
(208) 334-5860

Oregon

Ms. Monica Russel
OR Dept of Environmental Quality - Air Quality Division
811 SW 6th Street
Portland, OR 97204
(503) 229-5713

Washington

Ms. Joan Villines
WA Dept. of Ecology - Air Quality Programs
PO Box 47600
Olympia, WA 98504-7600
(360) 407-6839

Other Agencies

USEPA - AREAL

Ms. Dorothy Filmore
US EPA - AREAL, MD-56A
RTP, NC 27711
(919) 541-2718

National Park Service

Mr. David Joseph
National Park Service - Air
12795 West Alameda Parkway - Suite 215
Lakewood, CO 80228
(303) 969-2816

Tennessee Valley Authority

Mr. Steve McDaniel
Tennessee Valley Authority - EB 3A
Knoxville, TN 37902
(423) 632-4224



AFS Regional Compliance Contacts

Mr. Stan Chin
US EPA, Region I (ATC-2311)
John F Kennedy Building
Boston, MA 02203
(617) 565-3709

Mr. Jim Nyemchek
US EPA, Region II (2PM-PA) - Air Compliance Branch
290 Broadway - 21st Floor
New York, NY 10007-1866
(212) 637-4048

Ms. Betty Harris
US EPA, Region III (3AT-13)
841 Chestnut Street
Philadelphia, PA 19107
(215) 566-2168

Mr. Ahmed Amanulah
US EPA, Region IV (APTMD/APB)
100 Alabama Street, SW
Atlanta, GA 30303-3104
(404) 562-9209

Ms. Debra Flowers
US EPA, Region V - ARD, AECAB (AE17-J)
77 W Jackson Boulevard
Chicago, IL 60604
(312) 353-4410

Ms. Betsy Metcalf
US EPA, Region VI (6T-AG)
1445 Ross Avenue
Dallas, TX 75202-2733
(214) 665-7272

Ms. Earlyne Hill
US EPA, Region VII - APCO/ARTD
726 Minnesota Avenue
Kansas City, KS 66101
(913) 551-7617

Ms. Brenda Combs
US EPA, Region VIII (8ART-TO)
999 18th Street, Suite 500
One Denver Place
Denver, CO 80202-2466
(303) 312-6775

Ms. Linda Barajas
US EPA, Region IX (A-3-1) - Air & Toxics, COS - A31
75 Hawthorne Street
San Francisco, CA 94105
(415) 744-1181

Ms. Laurie Kral
US EPA, Region X (AT-082)
1200 Sixth Avenue
Seattle, WA 98101
(206) 553-1868

AFS State Compliance Contacts Region 1



Connecticut
Mr. Jim Royce
CT Dept of Env Protection -Bureau of
Air Mgmt
79 Elm Street
Hartford, CT 06106-1630
(203) 424-3470

Maine
Mr. Louis Fontaine
ME Dept of Environ Prot -Bureau of Air Quality Cntrl
State House, Station 17
Augusta, ME 04333-6017
(207) 289-2437

Massachusetts
Mr. Bob Boisselle
MA Dept of Env Protection - Div of Air Quality Control
One Winter Street
Boston, MA 02108-4746
(617) 292-5593

New Hampshire
Mr. Jimmy Meyer
NH Dept of Env Service -Air Resources Division
64 Main Street, Caller Box 2033
Concord, NH 03302-3022
(603) 271-1370

Rhode Island
Mr. Chris John
RI Dept of Env Mgmt - Div of Air & Hazardous Mat
291 Promenade Street
Providence, RI 02908-5767
(401) 277-2808

Vermont
Mr. Chris Jones
VT Agency of Nat Res - Air Pollution Control Division
103 S Main Street, Bldg 3 South
Waterbury, VT 05676
(802) 241-3840

Region 2

New York
Mr. Gordon Howe
NY State Dept of Environ Conservation
50 Wolf Road
Albany, NY 12233

New Jersey
Mr. John Walsh
NJ Dept of Environ Prot - Div of Environmental Quality
401 E State Street
Trenton, NJ 08625

Region 2 (Continued)

Puerto Rico

Ms. Evelyn Rodriguez
PR Environmental Quality Board
PO Box 11488
Santurce, PR 00910
(809) 766-1997

Virgin Islands

Mr. Juan Perez
VI Dept of Planning & Resources
1118 Watergut Homes - Christianstead
St. Croix, VI 00820-5065
(809) 773-0565

Region 3

Delaware

Mr. Edward Jackson
DE DNR& Environmental Control, AWMD
715 Grantham Lane
New Castle, DE 19720
(302) 323-4542

District of Columbia

Mr. William Gillespie
Dept of Cons & Reg Affairs - Env Reg Admn, ARMD
2100 M L King Jr Avenue, SE
Washington, DC 20020
(202) 404-3368

Maryland

Ms. Laramie Daniel
2500 Broening Highway
Baltimore, MD 21224
(410) 631-3231

Pennsylvania

Mr. John Hulsberg
PA Dept of Environ Res - Bureau of Air Quality Cntrl
400 Market St, State Office Bldg
Harrisburg, PA 17105-8468
(717) 772-3426

Pennsylvania (Local)

Mr. William Bianco
Philadelphia Dept Public Health - Air Mgmt Services
321 University Ave, Spelman Bldg
Philadelphia, PA 19104
(215) 823-7572

Pennsylvania (Local)

Mr. George Leney
Allegheny Co. Health Dept -Bureau of Air Poll Control
301 39th Street
Pittsburgh, PA 15201
(412) 578-7967

Virginia

Ms. Deborah White
627 E Main Street, 8th Floor
Richmond, VA 23219
(804) 698-4408

West Virginia

Ms. Theresa Adkins
WV Air Pollution Control Commisn
1558 Washington Street, E
Charleston, WV 25311
(304) 558-4022

Region 4

Florida

Ms. Diane Spingler
FL Dept of Env. Prot - Div of Air Res
2600 Blair Stone Road
Tallahassee, FL 32399-2400
(904) 921-9522

Region 5

Illinois

Mr. David Asselmeier
IL EPA - Div of Air Pollution Control
2200 Churchill Rd, PO Box 19276
Springfield, IL 62706
(217) 782-7048

Indiana

Ms. Wanda Stanfield
IN Dept of Environ Mgmt - Office of Air Management
PO Box 6015
Indianapolis, IN 46206
(317) 233-6864

Michigan

Ms. Susan Parker
MI Dept of Natural Resources - Air Quality Division
PO Box 30260
Lansing, MI 48909
(517) 373-1238

Minnesota

Mr. John Morrill
MN Poll Control Agency - Division of Air Quality
520 Lafayette Road
St.Paul, MN 55155-3898
(612) 296-7351

Ohio

Ms. Clara Dailey
OH EPA - Permit Management Unit
1600 Watermark Drive
Columbus, OH 43215-1034
(614) 644-3631

Wisconsin

Mr. Colin Duffy
WI DNR - Bureau of Air Management
PO Box 7921 (AM/7)
Madison, WI 53703
(608) 266-9767



Region 6

Arkansas

Ms. Evelyn Withers
AR Dept of Pollution & Ecology
PO Box 8913
Little Rock, AR 72219-8913
(501) 570-2110

Louisiana

LA Dept of Environmental Quality
PO Box 82135
Baton Rouge, LA 70884-2135
(504) 765-0190

New Mexico

Ms. Sheila Ayala
Air Pollution Control Division
PO Box 1293
Albuquerque, NM 87103
(505) 768-2600

New Mexico (Local)

Mr. Martin Quintana
NM Health & Environment Dept
2048 Galisteo Road
Sante Fe, NM 87505
(505) 827-1472

Oklahoma

Mr. Jeff Dye
OK Department of Health
Environmental Health Division
PO Box 53551
Oklahoma City, OK 73152
(405) 271-1683

Oklahoma (Local)

Oklahoma City/County Health Dept - APC
921 NW 23rd Street
Oklahoma City, OK 73105
(405) 427-8651

Oklahoma (Local)

Ms. Alicia Etgen
Tulsa City/County Health Dept - Air Quality Control
4616 E 15th Street
Tulsa, OK 74112
(918) 744-1000

Texas

Mr. Jack Lehman
Texas Air Control Board
12124 Park 35 Circle
Austin, TX 78753
(512) 451-5711

Region 7

Iowa

Ms. Michele Kochheiser
IA Dept of Natural Res - Henry A Wallace Building
900 E Grand
Des Moines, IA 50319
(515) 281-8024

Kansas

Ms. Mariellen Butler
KS Dept of Health and Environmnt
Forbes Field, Building 740
Topeka, KS 66620
(913) 296-1577

Missouri

Ms. Nikki Grimshaw
MO DNR - Jefferson State Office Building
PO Box 176
Jefferson City, MO 65102
(314) 751-8328

Nebraska

Mr. Jim Yeggy
NE Dept of Environmental Quality
PO Box 98922 - Statehouse Station
Lincoln, NE 68509-8922
(402) 471-4212

Region 8

Colorado

Mr. Mark Kendra
CO Air Pollution Control Div
4300 Cherry Creek Drive, S
Denver, CO 80222
(303) 692-3172

Montana

Mr. Brian Hohn
MT Air Quality Bureau -Dept of Health & Env Science
Cogswell Building
Helena, MT 59620
(406) 444-3454

North Dakota

Mr. Jim Semerad
ND Department of Health - Div of Env Engineering
PO Box 5520
Bismarck, ND 58506-5520
(701) 328-5188

South Dakota

Mr. Tim Rogers
SD Office of Air Quality & Solid Waste - Div of Nat Res
Joe Foss Building
Pierre, SD 57501
(605) 773-4201

Utah

Ms. Susan Weisenberg
UT Dept of Environmental Quality
150 North 1950 West
Salt Lake City, UT 84114-4820
(801) 536-4000

Wyoming

Mr. Dan Olsen
WY Dept of Environmental Quality - Air Quality Div
122 W 25th St, Herschler Bldg
Cheyenne, WY 82002
(307) 777-7391



Region 9

Arizona

Mr. Dave Kempson
AZ Dept of Environmental Quality
PO Box 600
Phoenix, AZ 85001
(602) 207-2325

Arizona (Local)

Ms. Jo Crumbaker
Maricopa County - Air Pollution Control
2406 S 24th Street, Suite E-214
Phoenix, AZ 85034
(602) 506-6705

Arizona (Local)

Mr. Pete Wagner
Pima County DEQ
130 W Congress Street
Tucson, AZ 85701
(602) 740-3347

California

Nester Castillo
California Air Resources Board
PO Box 2815
Sacramento, CA 95812
(916) 322-5716

Hawaii

Mr. Wendall Sano
State of Hawaii - Clean Air Branch
PO Box 3378
Honolulu, HI 96801
(808) 586-4200

Nevada

Mr. Tom Porta
State of Nevada - Bureau of Air Quality
123 W Nye Lane
Carson City, NV 89710
(702) 687-5065

Nevada (Local)

Ms. Lea Kain
Clark County Health District - Air Poll Control Division
625 Shadow Lane
Las Vegas, NV 89127
(702) 383-1276

Nevada (Local)

Ms. Linda O'Brien
Washoe County - Air Quality Management Division
PO Box 11130
Reno, NV 89501
(702) 328-3756

Region 10

Alaska

Mr. Ron King
AK Dept of Environ Conservation
410 Willoughby, Suite 105
Juneau, AK 99801-1795
(907) 465-5100

Idaho

Ms. Pat Rayne
ID Div of Environmental Quality
1410 N Hilton
Boise, ID 83706
(208) 373-0432

Oregon

Ms. Terri Sylvester
OR Dept of Environmental Quality
811 SW Sixth Street
Portland, OR 97204-1390
(503) 229-5181

Washington

Ms. Sally Otterson
WA Department of Ecology (PV-11)
PO Box 47600
Olympia, WA 98504-7600
(206) 407-6806





AFS Regional Emissions Contacts

Mr. Bob McConnell
US EPA, Region I (ATS-2311)
John F Kennedy Building
Boston, MA 02203
(617) 565-9266

Mr. Demian Ellis
US EPA, Region II (2AWM-AP) - Air Program Branch
290 Broadway - 25th Floor
New York, NY 10007-1866
(212) 637-3713

Mr. Ted Erdman
US EPA, Region III (3PM-50)
841 Chestnut Street
Philadelphia, PA 19107
(215) 566-2766

Mr. Joe LeVasseur
US EPA, Region IV
100 Alabama Street, SW
Atlanta, GA 30303-3104
(404) 562-9035

Mr. Rafiu Dania
US EPA, Region V (SQ-14J)
77 W Jackson Boulevard
Chicago, IL 60604
(312) 353-6479

Ms. Ruth Tatom
US EPA, Region VI (6PD-Q)
1445 Ross Avenue
Dallas, TX 75202-2733
(214) 665-8355

Mr. Royan Teter
US EPA, Region VII - ARTX Division
726 Minnesota Avenue
Kansas City, KS 66115
(913) 551-7609

Mr. Dale Wells
US EPA, Region VIII (8ART-TO)
999 18th Street, Suite 500
One Denver Place
Denver, CO 80202-2405
(303) 312-6452

Mr. Morris Goldberg
US EPA, Region IX (A-2-4)
75 Hawthorne Street
San Francisco, CA 94105
(415) 744-1296

Mr. Bill Puckett
US EPA, Region X (ES-097)
1200 Sixth Avenue
Seattle, WA 98101
(206) 553-1702

AFS State Emissions Contacts

Region 1

Connecticut

Mr. Bill Simpson
CT Dept of Env Prot - Air Mgmt
79 Elm Street
Hartford, CT 06106
(860) 424-3027

Maine

Mr. Jerry Bernier
ME Dept of Env Prot - Bureau of Air Quality Control
State House Station 17
Augusta, ME 04333
(203) 289-2437

Massachusetts

Mr. Bob Boisselle
MA Dept of Environ Protection - Div of Air Qual Control
One Winter Street, 8th Floor
Boston, MA 02108
(617) 292-5609

New Hampshire

Mr. Peter Paplaskas
NH Dept of Environ Services - Air Resources Division
64 N Main Street, Caller Bx 2033
Concord, NH 03302-2033
(603) 271-1370

Rhode Island

Mr. Joe Antonio
RI Dept of Env Management - Div of Air & Haz Matls
291 Promenade Street
Providence, RI 02908
(401) 277-2808

Vermont

Mr. Dan Riley
VT Air Pollution Control Div-Agency of Nat Resources
103 S Main Street, Bldg 3 South
Waterbury, VT 05676
(802) 244-8731

Region 2

New Jersey

Mr. Ray Papalski
NJ Dept of Environmental Protection (CN-418)
401 E State Street
Trenton, NJ 08625
(609) 633-7225

New York

Mr. Rob Sliwinski
NY State Dept of Environ Conservation
50 Wolf Road, Room 736
Albany, NY 12233
(518) 457-2823

Region 3

Delaware

Mr. Al Duramo
DE Dept of Environmental Conservation
89 Kings Highway, PO Box 1401
Dover, DE 19901
(302) 739-4791

Maryland

Mr. Edward Carter
Air Mgmt Admin -Office of Environmental Programs
2500 Broening Highway
Baltimore, MD 21224
(301) 631-3280

Pennsylvania

Mr. John Slade
PA Dept of Environ Regulations
PO Box 2357
Harrisburg, PA 17105-2357
(717) 787-4310

Pennsylvania (Local)

Mr. Tom Weir
Department of Public Health - Air Mgmt Services
500 S Broad Street
Philadelphia, PA 19146
(215) 875-5625

Pennsylvania (Local)

Mr. George Leney
Allegheny County Health Dept - Bureau of Air Quality
301 39th Street
Pittsburgh, PA 15201
(412) 578-8131

Virginia

Mr. Kirit Chaudhari
VA Dept of Environmental Qual - Air Quality Programs
PO Box 10009
Richmond, VA 23240
(804) 698-4414

District of Columbia

Mr. Don Wambsgans
DC Dept of Consmr & Reg - Environ Cntrl, Suite 404
2100 M L King Boulevard, SE
Washington, DC 20020
(202) 404-1180

West Virinia

Mr. John Benedict
WV Air Pollution Control Commsn
1558 Washington Street
Charleston, WV 25311
(304) 348-4022

Region 4

Alabama

Ms. Monique Miles
1751 Congressman W L Dickinson D
Montgomery, AL 36130
(205) 701-7864

Florida

Ms. Yi Zhu
FL Dept of Env Regs - Air Mgmt
2600 Blair Stone Road
Tallahassee, FL 32399-2400
(904) 448-1344

Georgia

Mr. Ken Powell
GA Dept of Natural Resources - Env Prot Division,
APB
4244 International Pkwy, Ste 120
Atlanta, GA 30354-3906
(404) 363-7101

Kentucky

Ms. Diana Hogan
KY Dept of Environ Protection
803 Schenkel Lane
Frankfort, KY 40601-1403
(502) 573-2150

Mississippi

Mr. Connie Simmons
MS Dept of Env Quality - Office of Pollution Control
PO Box 10385
Jackson, MS 39289-0385
(601) 961-5171

North Carolina

Ms. Thena Smith
NC Dept of Env Health & Nat Resources - Air Quality
PO Box 29535
Raleigh, NC 27626-0535
(919) 733-1485

South Carolina

Mr. Bob Betterton
SC Dept of Enr Control - Bureau of Air Quality Control
2600 Bull Street
Columbia, SC 29201
(803) 734-4549

Tennessee

Mr. Ron Redus
TN Air Pollution Control - L&C Annex, 9th Floor
401 Church Street
Nashville, TN 37243
(615) 532-0577

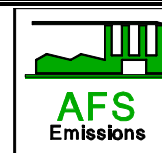
Region 5

Illinois

Mr. David Asselmeier
IL Environ Protection Agency
2200 Churchill Road
Springfield, IL 62706
(217) 782-7038

Indiana

Ms. Nancy Landau
IN Dept of Environ Mgmt - Office of Air Management
PO Box 6015
Indianapolis, IN 46206-6015
(317) 233-4862



Region 5 (Continued)

Michigan

Ms. Beth Minich
MI Dept of Natural Resources
PO Box 30260
Lansing, MI 48909
(517) 373-7051

Minnesota

Mr. Paul Kim
MN Pollution Control Agency
520 Lafayette Road
St Paul, MN 55155
(612) 296-7320

Ohio

Mr. William Juris
OH Environ Protection Agency
1800 Watermark Drive - Box 1049
Columbus, OH 43216-1049
(614) 644-3593

Wisconsin

Mr. J.R. Sims
Stationary Source Unit
Box 7921
Madison, WI 53707
(608) 266-0151

Region 6

Arkansas

Mr. Mike Porta
AR Dept of Pollution Control and Ecology, Air Division
8001 National Drive
Little Rock, AR 72209
(501) 562-7444

Louisiana

Ms. Marie Walsh
LA Dept of Env Quality - Air Quality Div, Info Systems
PO Box 82135
Baton Rouge, LA 70884-2135
(504) 765-0190

New Mexico (Local)

Mr. Mike Smith
Albuquerque Dept of Env Health APCD
PO Box 1293
Albuquerque, NM 87103
(505) 768-2600

New Mexico

Mr. Jim Shively
NM Air Quality Bureau - Env Improvement Div
1190 St Francis
Sante Fe, NM 87503
(505) 827-0068

Oklahoma (Local)

Ms. Alicia Etgen
Tulsa City-Co. Health Dept - APCD
4616 E 15th Street
Tulsa, OK 74112
(918) 744-1000

Oklahoma

Mr. Larry Trent
OK Dept of Environmental Quality - Air
Quality Prgrm
4545 N Lincoln Blvd
Oklahoma City, OK 73105-3483
(405) 271-1683 x196



Texas

Mr. Bill Gill
Texas Natural Resources Conservation Commission
PO Box 13087
Austin, TX 78711-3087
(512) 908-1477

Region 7

Iowa

Mr. Joseph Griffin
IA Dept of Natural Resources - Div of Env Control
900 E Grand
Des Moines, IA 50319
(515) 281-8911

Kansas

Mr. Dana Morris
KS Dept of Health & Env - Bureau of Air Quality & Rad
Forbes Field, Building 740
Topeka, KS 66620
(913) 296-1578

Missouri

Mr. Calvin Ku
MO Dept of Natural Res - Air Pollution Control Prgrm
PO Box 176
Jefferson City, MO 65102
(314) 751-4817

Nebraska

Mr. James Fobben
NE Dept of Environmental Control
Box 98922, State House Station
Lincoln, NE 68509
(402) 471-4204

Region 8

Colorado

Mr. Mark Kendra
CO Department of Health
4300 Cherry Creek Drive, S (APCD - SS - B1)
Denver, CO 80220
(303) 692-3172

Montana

Mr. Brian Hohn
MT Dept of Health & Environ Scns - Air Quality
Bureau
Cogswell Building
Helena, MT 59620
(406) 444-3454

Region 8 (Continued)

North Dakota

Mr. Gary Kline
ND Department of Health
1200 Missouri Avenue
Bismarck, ND 58506-5520
(701) 328-5188

South Dakota

Mr. Brian Gustafson
SD Dept of Water & Nat Res - Div of Env Regulations
Joe Foss Building
Pierre, SD 57501
(605) 773-4201

Utah

Ms. Patti Kimes
UT Dept of Environmental Quality
150 N 1950 West
Salt Lake City, UT 84114-4820
(801) 536-4000

Wyoming

Mr. Dan Olsen
WY Dept of Environmental Quality - Air Quality Div
122 W 25th Street
Cheyenne, WY 82002
(307) 777-7391

Region 9

Arizona

Mr. Mike Traubert
AZ Dept of Environmental Quality - Office of Air
Quality
3033 N Central Avenue
Phoenix, AZ 85012
(602) 207-2325

Arizona (Local)

Ms. Jo Crumbaker
Maricopa County Division of Air Pollution Control
2406 S 24th Street, Suite E214
Phoenix, AZ 85034-6822
(602) 506-6705

Arizona (Local)

Mr. Doug LaGrange
Pima Co Dept of Env Quality
150 W Congress Street, 5th Floor
Tucson, AZ 85701-1317
(602) 440-6705

California

Ms. Linda Murchison
CA Air Resources Board
Box 2815
Sacramento, CA 95812
(916) 322-6021

Hawaii

Mr. Tyler Sugihara
HI Department of Health - Clean Air Branch
PO Box 3378
Honolulu, HI 96801
(808) 543-8201

Nevada (Local)

Mr. David Hoch
Clark County Health District -
APCD
625 Shadow Lane
Las Vegas, NV 89106
(&02) 383-1276

Nevada

Mr. Jim Brandmueller
NV Bureau of Air Quality
123 W Nye Lane
Carson City, NV 89710
(702) 687-4670

Nevada (Local)

Ms. Linda O'Brien
Washoe County Air Quality Management Division
PO Box 11130
Reno, NV 89501
(702) 784-7206

American Samoa

Ms. Pati Faiai
Director, American Samoa EPA
Office of the Governor
Pago Pago, AS, 96799

Guam

Mr. Fred Castro
Guam Environ Protection Agency
IT&E Harmon Plaza, Unit D-107
130 Rojas Street
Harmon, GU 96911

Region 10

Alaska

Mr. Ron King
AK Dept of Environ Conservation
410 Willoughby Avenue, Suite 105
Juneau, AK 99801-1795
(907) 465-2666

Idaho

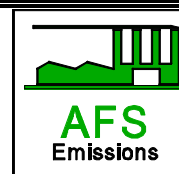
Ms. Douglas Fowler
ID Dept of Health & Welfare - Div of Env Quality
1410 N Hilton
Boise, ID 83706
(208) 334-0548

Oregon

Mr. Wes Risher
OR Dept of Environmental Quality
811 SW Sixth Street
Portland, OR 97204
(503) 229-5092

Washington

Ms. Sally Otterson
WA Department of Ecology - Air Quality Program
PO Box 47600
Olympia, WA 98504-7600
(206) 407-6806





Janet Bowen
EPA Region I (CAP)
J.F.K.Federal Building
Boston, MA 02203-2211
(617) 565-3595

Umesh Dholakia
EPA Region II
290 Broadway
New York, NY 10007-1866
(212) 637 4023

Jim Cashel
Alice Chow
EPA Region III (3AT23)
EPA Region VIII (8ART-AP)
841 Chestnut
Philadelphia, PA
(215) 597-1260

Lee Page
EPA Region IV (AR-4)
100 Alabama Street, SW
Atlanta, GA 30303-3104
(404) 562-9131

Bruce Varner
EPA Region V (AE-17J)
77 W. Jackson Blvd.
Chicago, IL
(312) 886-6793

Joyce Chandler
OECA (2224A)
401 M Street, SW
Washington, DC 20020
(202) 564-7073

Belinda Breidenbach
OECA
401 M Street, SW
Washington, DC 20020
(202) 564-7022

Jole Luehrs
EPA Region VI (6PD-R)
1445 Ross Avenue, Suite 700
Dallas, Tx 75202-2733
(214) 665-7250

Richard Tripp
EPA Region VII
726 Minnesota Avenue
Kansas City, KS 66101
(913)

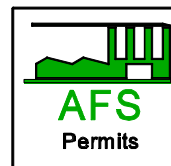
Victoria Parker Christensen
Ann Marie Patrie
999 18th Street, Suite 500
Denver, CO 80202-2405
(303) 312-

Mae Wang
EPA Region IX (A-5-2)
75 Hawthorne Street
San Francisco, CA 94105
(415) 744-1200

Chris Hall
EPA Region X (OAQ-107)
1200 Sixth
Seattle, WA 98101
(206) 553-1949

Julie Andresen
EPA/OAQPS (MD-12)
RTP, NC 27711
(919) 541-5339

AFS Regional Permits Contacts



Brendan McCahill
USEPA, Region 1
JFK Federal Building, Room 2311
Boston, MA 02203
(617) 565-3566

Mr. Robert Carvalho
USEPA Region 2
290 Broadway - 21st Floor
New York, NY 10007-1866
(212) 637-4021

Ms. Betty Harris
USEPA Region 3 (3AT-21)
841 Chestnut Street
Philadelphia, PA 19107
(215) 566-2168

Mr. Doug Deakin
USEPA Region 4
100 Alabama Street, SW
Atlanta, GA 30303-3104
(404) 562-9114

Mr. Gregory Zurla
USEPA Region 5 - Air & Radiation (5AE-26)
230 S. Dearborn Street
Chicago, IL 60604
(312) 886-2402

Ms. Betsy Metcalf
USEPA Region 6 (6T-AN)
1445 Ross Avenue
Dallas, TX 75201
(214) 665-7272

Mr. Ward Burns
USEPA Region 7
726 Minnesota Avenue
Kansas City, KS 66101
(913) 551-7960

Mr. Mike Owens
USEPA Region 8
999 18th Street, Suite 500
Denver, CO 80225
(303) 312-6440

Mr. Roger Kohn
USEPA Region 9 (A-5-2)
75 Hawthorne Street
San Francisco, CA 94105
(415) 744-1238

Ms. Laurie Kral
USEPA Region 10 (AT-082)
1200 Sixth Avenue
Seattle, WA 98101
(206) 553-1868